

Ford Escape Advanced Research Fleet

Number of vehicles: 21

Date range of data received: 01/01/2011 to 08/31/2011

Reporting period: Jan 11 - Aug 11

Number of vehicle days driven: 2,169

All Trips Combined

Overall gasoline fuel economy (mpg)	39
Overall AC electrical energy consumption (AC Wh/mi) ¹	100
Overall DC electrical energy consumption (DC Wh/mi) ²	66
Total number of trips	9,712
Total distance traveled (mi)	120,068

Trips in Charge Depleting (CD) mode³

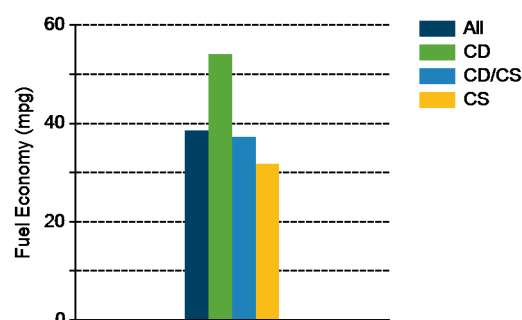
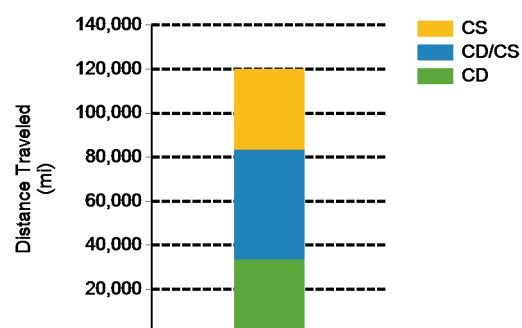
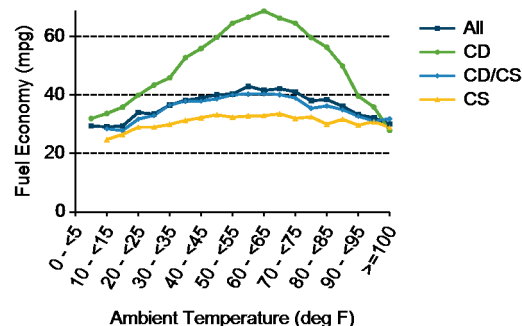
Gasoline fuel economy (mpg)	54
DC electrical energy consumption (DC Wh/mi) ⁴	166
Number of trips	5,460
Percent of trips city highway	84% 16%
Distance traveled (mi)	33,366
Percent of total distance traveled	28%

Trips in both Charge Depleting & Charge Sustaining (CD/CS) modes⁵

Gasoline fuel economy (mpg)	37
DC electrical energy consumption (DC Wh/mi) ⁶	52
Number of trips	1,948
Percent of trips city highway	39% 61%
Distance traveled (mi)	49,756
Percent of total distance traveled	41%

Trips in Charge Sustaining (CS) mode⁷

Gasoline fuel economy (mpg)	32
Number of trips	2,302
Percent of trips city highway	64% 36%
Distance traveled (mi)	36,947
Percent of total distance traveled	31%

Gasoline Fuel Economy By Trip Type

Distance Traveled By Trip Type

Fuel Economy By Ambient Temperature


Notes: 1 - 7. Please see <http://avt.inl.gov/pdf/phev/fordreportnotes.pdf> for an explanation of all PHEV Fleet Testing Report notes.

Since these vehicles are flex-fuel capable, some driving events are conducted with E-85, which may decrease fuel economy results

"The Ford Escape Advanced Research Fleet was designed as a demonstration of customer duty cycles related to plug-in electric vehicles. The vehicles used in this demonstration have not been optimized to provide the maximum potential fuel economy."

Trips in Charge Depleting (CD) mode

	City	Highway
Gasoline fuel economy (mpg)	50	59
DC electrical energy consumption (DC Wh/mi)	163	170
Percent of miles with internal combustion engine off	40%	11%
Average trip driving intensity (Wh/mi)	268	308
Average trip distance (mi)	4	18

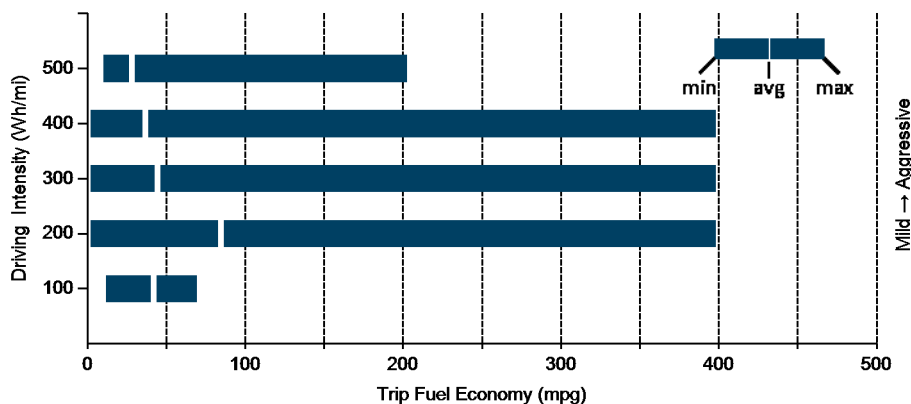
Trips in Charge Depleting and Charge Sustaining (CD/CS) mode

Gasoline fuel economy (mpg)	41	37
DC electrical energy consumption (DC Wh/mi)	65	49
Percent of miles with internal combustion engine off	30%	5%
Average trip driving intensity (Wh/mi)	280	324
Average trip distance (mi)	9	36

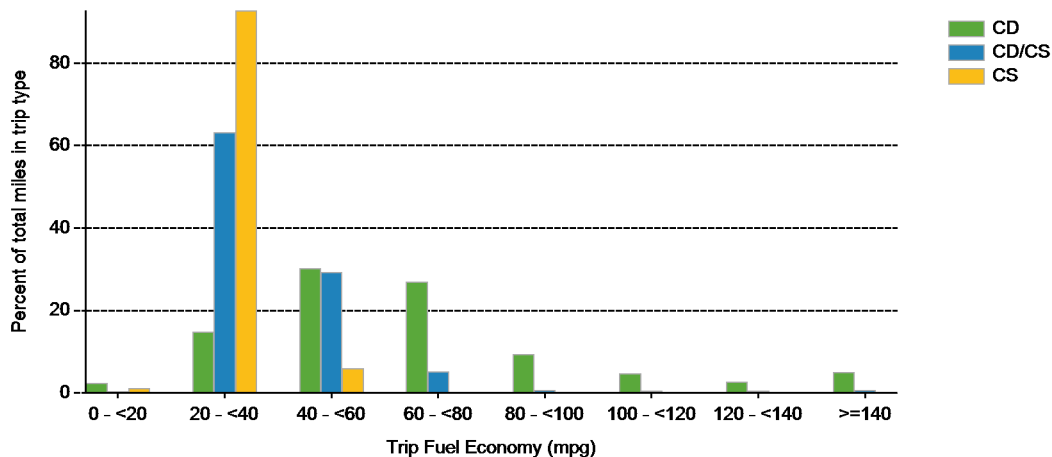
Trips in Charge Sustaining (CS) mode

Gasoline fuel economy (mpg)	30	32
Percent of miles with internal combustion engine off	21%	4%
Average trip driving intensity (Wh/mi)	269	321
Average trip distance (mi)	4	37

Effect Of Driving Intensity (Wheel Energy) on Fuel Economy This Month



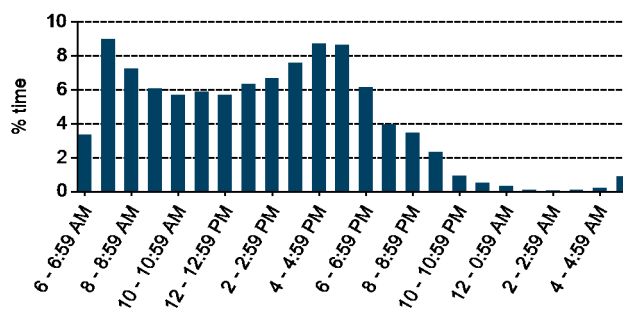
Trip Fuel Economy Distribution By Trip Type



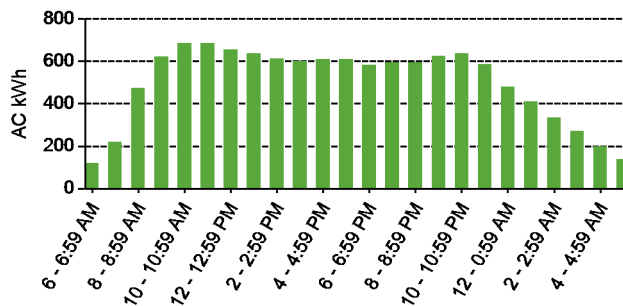
Plug-in charging

Average number of charging events per vehicle per month when driven	34
Average number of charging events per vehicle per day when driven	2.4
Average distance driven between charging events (mi)	23.2
Average number of trips between charging events	1.9
Average time plugged in per charging event (hr)	7.0
Average time charging per charging event (hr)	1.7
Average energy per charging event (AC kWh)	2.3
Average charging energy per vehicle per month (AC kWh)	79.4
Total number of charging events	5,180
Total charging energy (AC kWh)	11,994

Time of Day When Driving



Time of Day When Charging



Time of Day When Plugging In

